Pre-injector Upgrade Updates (22 Jun 2011 – 06 Jul 2011)

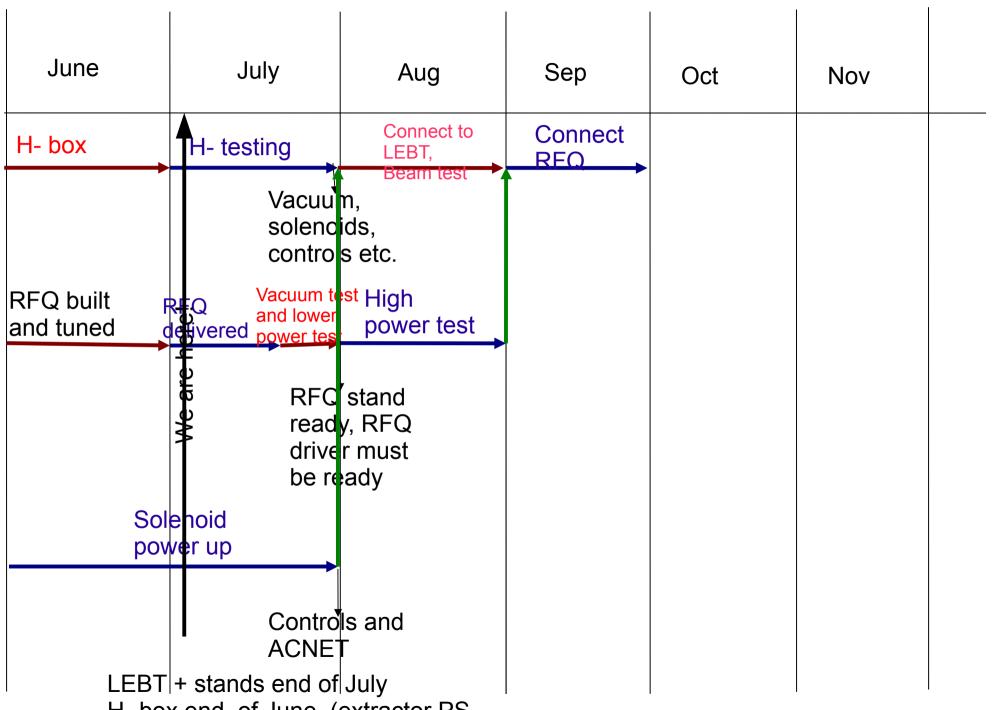
C.Y. Tan 06 Jul 2011

News

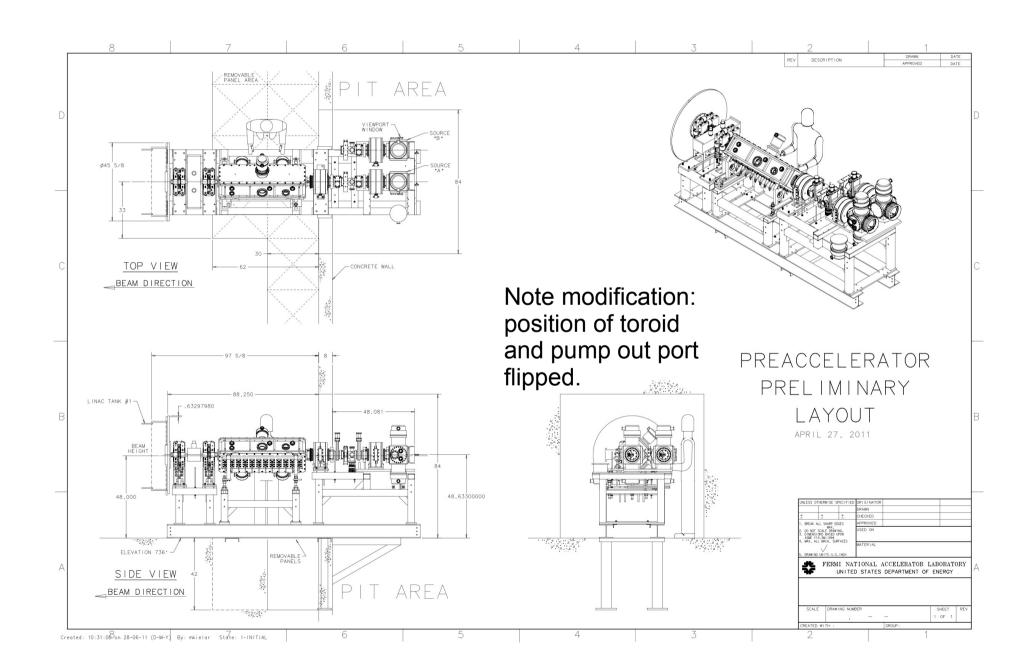
- Review for solenoid testing (29 Jun)
 - Add a smoke detector to each power supply space and not install Klixons on the cables.
 - finish the interlock switch installation.
 - Install 480vac labels on lexan panels and on the terminal block and fuse covers.
 - Do a thermal scan of the rack at full load current when the magnet is back. This will require that we turn the rack during the test.
 - Have a mini walk through after complete.

Reminders

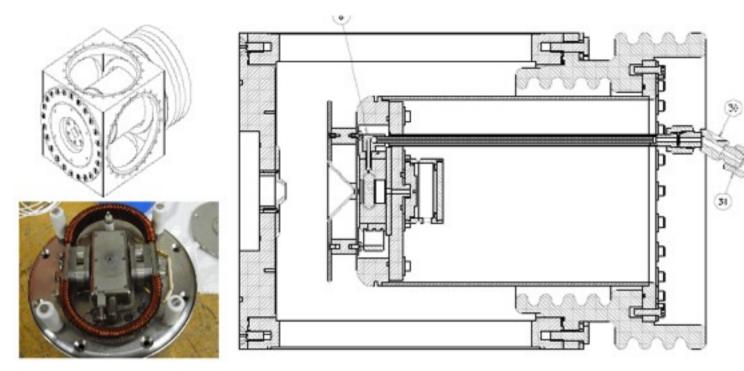
- Fill in the MS Project time lines. See Elmie.
 - Mike Kucera
 - Vic Scarpine
- Fill in paper sections for the review.



H- box end of June, (extractor PS status?)

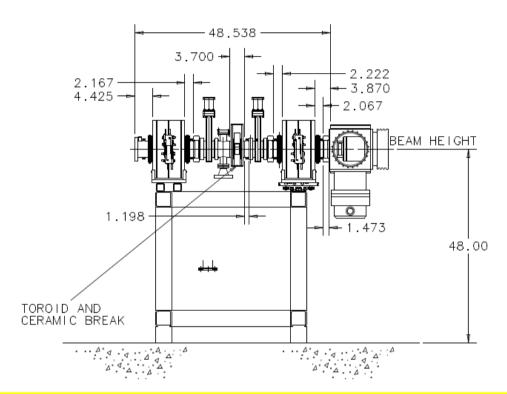


Source Status



Device	Status	Comments
2 nd source cube	A few parts left to be machined	
Test stand source		53 to 63mA with ground electrode removal. 95 mA by moving toroid closer to output. See next talk.
Extractor PS	Received transformer (16 Jun)	All parts on hand
Source Turbos	received	

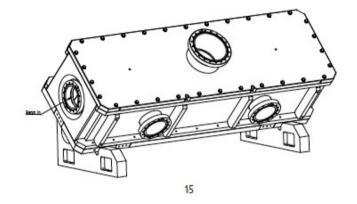
LEBT Status

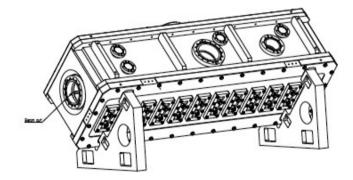


Device	Status	Comments
Solenoid PS	Ready to test solenoids	Safety review is done (29 Jun)
Solenoids LEBT drawings	Only #4 is incomplete. Being drawn	Ready to be shipped. Bellows ordered End of June to early July delivery. Final drawings still not here! Waiting for them to give
Correctors	final design (07 Mar 2011)	Steve Hays inductance estimates
Solid state switches	Have quote	\$75k for two. 90 days to deliver once purchase is made

RFQ Status

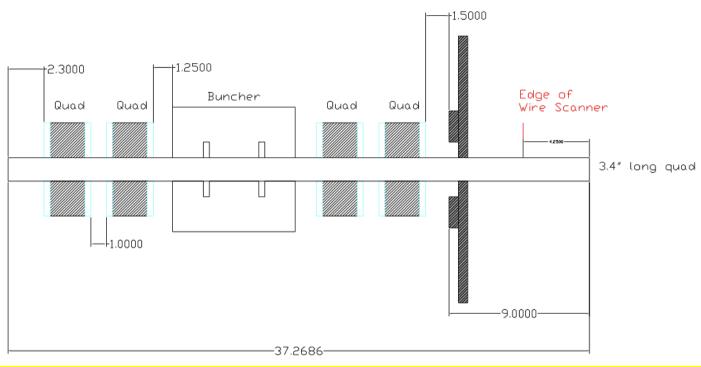
•Should be done. Waiting for email from Schempp (06 Jul)





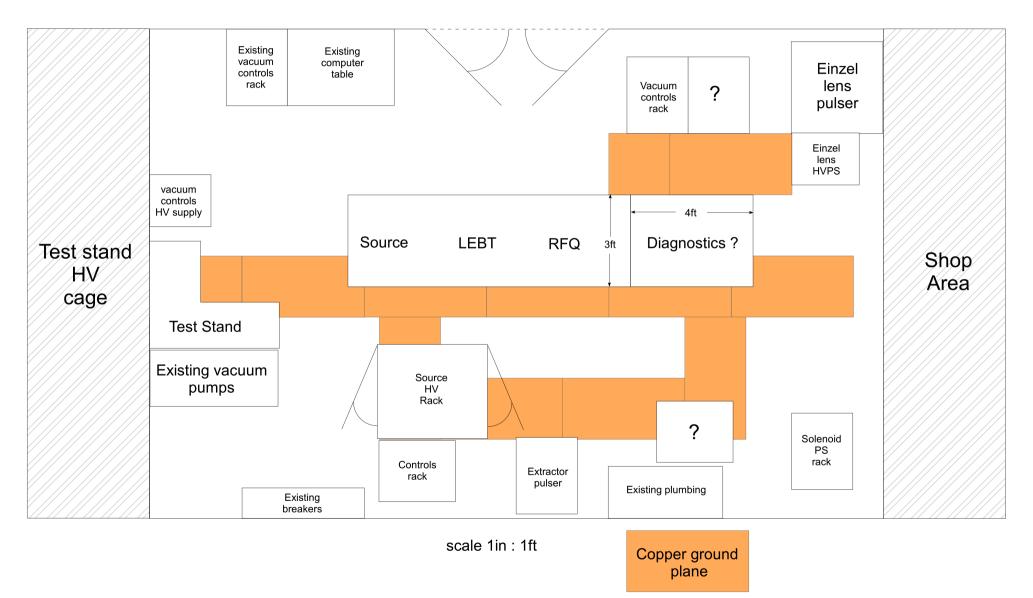
Device	Status	Comments
4816 PA	Water is hooked up. No leaks.	Expect power out of tube by 3 rd week of July.

MEBT Status



Device	Status	Comments
Quads	Coil winding has started (17 May)	All quad coils are complete (28 Jun). Dipole coils for 2 magnets complete. Potting has started. Cores will be delivered in Aug. 1 st magnet in
Buncher	Bead pull parts are done. (29 Jun)	
Power for quads Power for buncher	Specs to follow	Quads being redone. Use present buncher supply in the line.

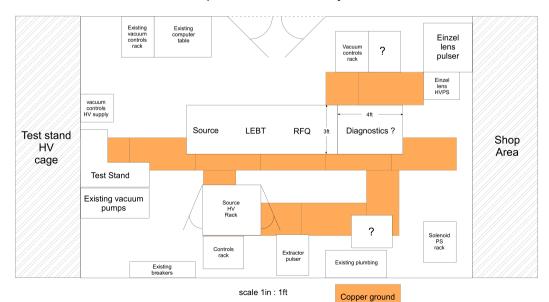
Proposed test area layout



Relay Racks

Rack	Owner	Space	Status	
vacuum controls rack	Kent Triplett		On hand	
Extractor pulser	Jim Lackey			
Extractor PS and controls	Jim Lackey		On hand	
Einzel lens Pulser	Jim Lackey		????	
Source HV Trim PS Solenoid PS Controls Instrumentation	Jim Lackey Steve Hays Steve Hays Mike Kucera Ray Tomlin	2x3U	???? to be built ???? ???? ????	

Proposed test area layout



3U = 5.25"

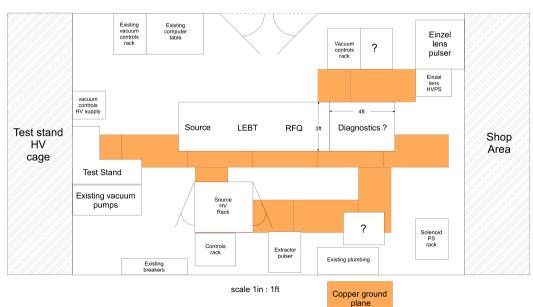
1U=1.75"

2U = 3.5"

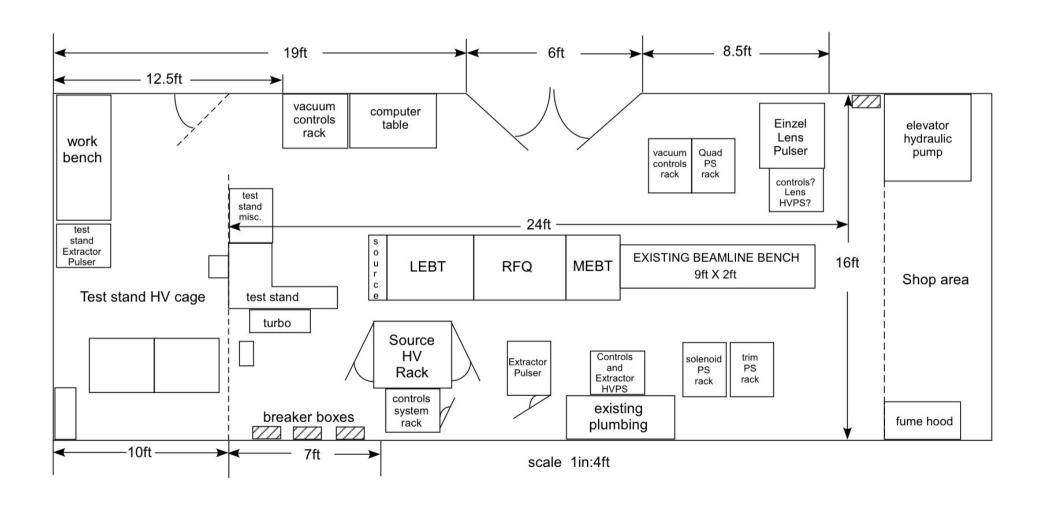
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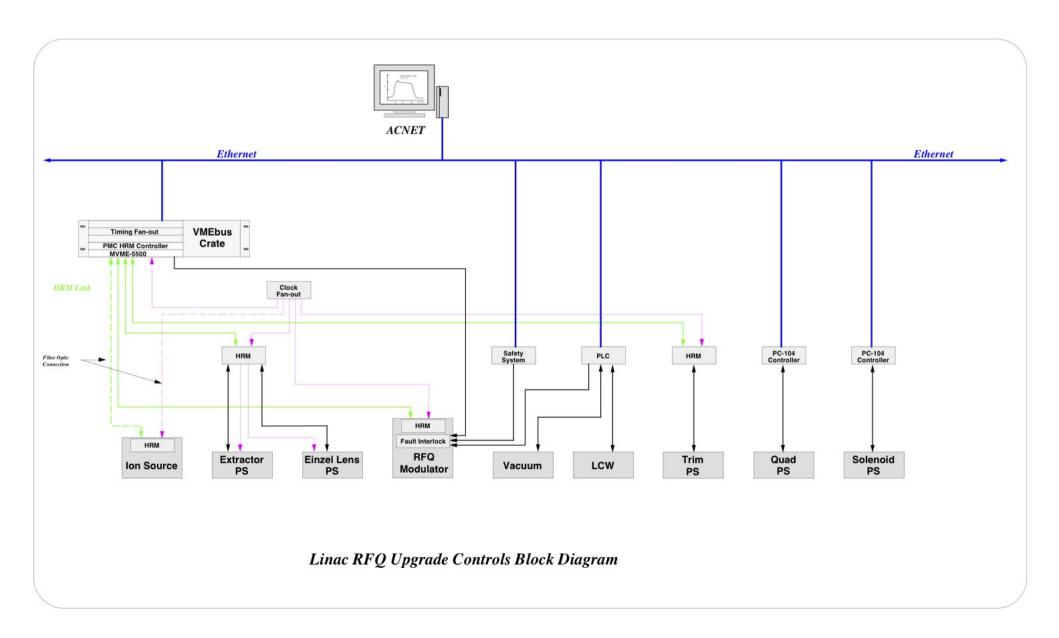
Old drawing



Test area, test stand and instrumentation

Device	Status	Comments
Floor	Copper flooring started. (06 Jun)	Done (06 July)
Toroid Faraday Cup	Toroid to be installed in emittance probe can. On hand as dump	
Emittance probe can New source PS	4" bellows. 5" toroid. started installation (06 July)	Multiwires with dump should be ready end of July (29 Jun)

Controls



Safety

 Beam parameters submitted to safety (Gary Lauten) 10 Jun.